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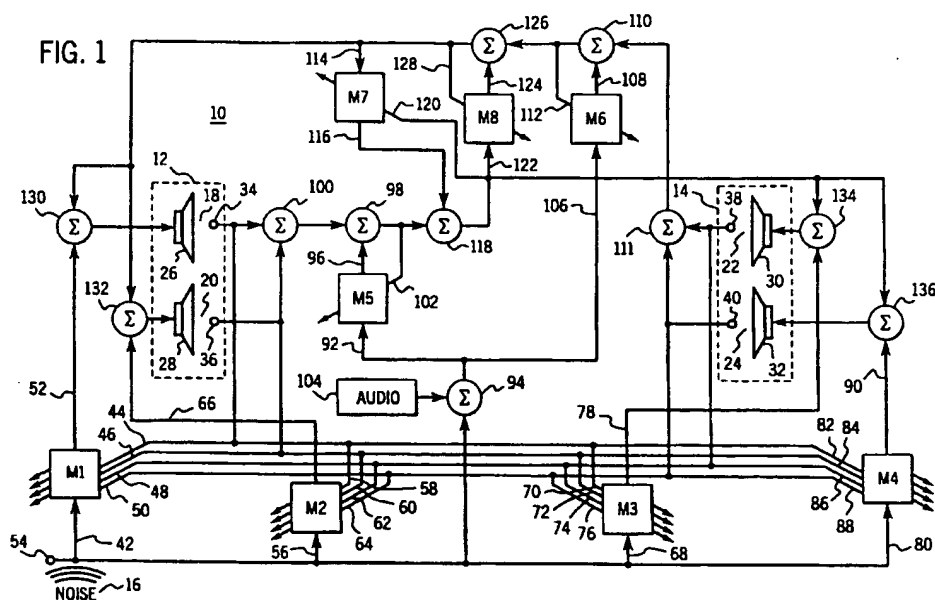
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(54) **Multi-channel communication system**

(57) A multi-channel communication system is provided. In an active acoustic attenuation implementation, noise, including cross-coupled noise between channels and locations, designated audio signals, and echoes,

are canceled, but not speech from another location. A particularly desirable vehicle application is provided.



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## EUROPEAN SEARCH REPORT

Application Number  
EP 96 30 0078

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                              |                                                   |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Citation of document with indication, where appropriate, of relevant passages                                                                                                | Relevant to claim                                 | CLASSIFICATION OF THE APPLICATION (Int.Cl.6) |
| X<br>Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | US 5 033 082 A (ERIKSSON LARRY J ET AL)<br>* abstract *<br><br>* figure *<br>* column 1, line 27 - line 37 *<br>* column 2, line 46 - line 49 *<br>* claims 1,2,4,13,24,25 * | 27<br>1-3,9,<br>10,16,<br>17,20-22                | G10K11/178                                   |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US 5 216 722 A (POPOVICH)<br><br>* abstract *<br>* figures 8,9 *<br>* claim 1 *                                                                                              | 1-3,9,<br>10,16,<br>17,20-22                      |                                              |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EP 0 560 364 A (HONDA MOTOR CO LTD)<br>* page 7, line 40 - line 44 *<br>* page 24, line 36 - line 40 *<br>* figure 32 *                                                      | 13,18                                             |                                              |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US 5 245 664 A (KINOSHITA AKIO ET AL)                                                                                                                                        |                                                   | TECHNICAL FIELDS<br>SEARCHED (Int.Cl.6)      |
| D,A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | US 5 216 721 A (MELTON)                                                                                                                                                      |                                                   | G10K                                         |
| <p><del>The present search report has been drawn up for all claims</del></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                              |                                                   |                                              |
| Place of search<br>THE HAGUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                              | Date of completion of the search<br>20 March 1998 | Examiner<br>Ph. de Heering                   |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</p> <p>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons<br/>&amp; : member of the same patent family, corresponding document</p> |                                                                                                                                                                              |                                                   |                                              |

EP-0 FORM 1503 03/82 (F04C01)

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Application Number  
EP 96 30 0078

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-23, 27

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LACK OF UNITY OF INVENTION  
SHEET B

Application Number

EP 96 30 0078

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-23,27

Active acoustic noise cancelling communication system,  
notably for vehicle.

2. Claims: 24-26

An occupant restraint system, with a mounted microphone.